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Attorney Docket No.: 040092-020010US Client Reference No.: 80PC3656

2003mmissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

2003 de 1802 de 1800 d

TOWNSEND and TOWNSEND and CREW LLP

By: Nicola M Burke

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Erik Lier, et al.

Application No.: 10/625,810

Filed: July 22, 2003

For: PARTLY INTERLEAVED PHASED ARRAYS WITH DIFFERENT ANTENNA ELEMENTS IN CENTRAL AND OUTER REGION

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Examiner: Not yet known

Art Unit:

INFORMATION DISCLOSURE

STATEMENT UNDER 37 CFR §1.97 and

§1.98

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

Application No.: 10/625,810

Page 2

representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that <u>no fee is required</u> for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted

Chad S. Hilyard Reg. No. 40,647

TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, 8th Floor San Francisco, California 94111-3834

Tel: 303-571-4000 Fax: 303-571-4321

CSH:nmb 60021857 v1

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Complete if Known					
Application Number	10/625,810				
Filing Date	July 22, 2003				
First Named Inventor	Lier, Erik, et. al.				
Art Unit					
Examiner Name	Not yet known				
Attorney Docket Number	040092-020010US				

			U.S. PATENT D	OCUMENTS	
		Document Number			
Examiner	Cite No.1	Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-2,786,133	03-19-1957	Dyke	
	AB	US-2,951,152	08-30-1960	Sichak et al.	
	AC	US-4,885,589	12-05-1989	Edward et al.	
	AD	US-4,939,527	07-03-1990	Lamberty et al.	
	ΑE	US-5,017,927	05-21-1991	Agrawai et al.	
	AF	US-5,291,475	03-01-1994	Bruckert	
	AG	US-5,345,603	09-06-1994	Laffont	
	AH	US-5,394,561	02-28-1995	Freeburg	
	AI	US-5,459,474	10-17-1995	Mattioli et al.	
	AJ	US-5,572,219	11-05-1996	Silverstein et al.	
	AK	US-5,663,736	09-02-1997	Webb et al.	
	AL	US-5,666,128	09-09-1997	Murray et al.	
	AM	US-5,675,343	10-07-1997	Champeau	
	AN	US-5,708,969	01-13-1998	Kotzin et al.	
	AO	US-5,734,983	03-31-1998	Faruque	
	AP	US-5,740,536	04-14-1998	Benveniste	
	AQ	US-5,768,266	06-16-1998	Thompson et al.	
	AR	US-5,790,070	08-04-1998	Natarajan et al.	
	AS	US-5,790,071	08-04-1998	Silverstein et al.	
	AT	US-5,870,063	02-09-1999	Cherrette et al.	
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	AV	US-6,002,360	12-14-1999	Wolcott et al.	
	AW	US-6,043,776	03-28-2000	Chiba et al.	
	AX	US-6,084,545	07-04-2000	Lier et al.	
	AY	US-6,112,094	08-29-2000	Dent	
	AZ	US-6,157,621	12-05-2000	Brown et al.	
	BA	US-6,163,296	12-19-2000	Lier et al.	
	BB	US-6,172,655	01-09-2001	Volman	
	ВС	US-6,232,920	05-15-2001	Brookner et al.	
	BD	US-6,239,762	05-29-2001	Lier	
	BE	US-6,246,364	06-12-2001	Rao et al.	
	BF	US-6,362,780	03-26-2002	Butz et al.	
	BG	US-6,366,238	04-02-2002	DeMore et al.	
	ВН	US-6,377,561	04-23-2002	Black et al.	

Examiner	Date
Signature	Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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				Application Number	10/625,810			
INF	ORMATION	DIS	CLOSURE	Filing Date	July 22, 2003			
STA	TEMENT B	Y A	PPLICANT	First Named Inventor	Lier, Erik, et. al.			
				Art Unit				
	(use as many she	ets as	necessary)	Examiner Name	Not yet known			
Page	2	of	3	Attorney Docket Number	040092-020010US			

U.S. PATENT DOCUMENTS										
	Document Number									
Examiner	Cite No.	Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear					
	BI	US-6,407,722	06-18-2002	Bogner et al.						
	BJ	US-6,411,256	06-25-2002	Lier et al.						
	BK	US-6,507,315	01-14-2003	Purdy et al.						
	BL	US-6,522,643	02-18-2003	Jacomb-Hood et al.						
	ВМ	US-2001/0034206	10-25-2001	Thompson et al.						
	BN	US-2002/0171583	11-21-2002	Purdy et al.						
	во	US-2002/0171585	11-21-2002	Eiges						

	FOREIGN PATENT DOCUMENTS								
Examiner	Cite	For	reign Patent Doc	ument	Dublication Data	Name of Patentee or	Pages, Columns, Lines, Where Relevant		
Initials*	No.1	Country Code ³	Number⁴	Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T ⁶	
	BP	EP	0276817			<u> </u>			
	BQ	EP	0798209						
	BR	GB	2251360						
	BS	JP	0248124						
	BT	WO	00/07307						

Examiner Signature	Date Considered	

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Applicant's unique citation designation number (optional). Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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First Named Inventor	Lier, Erik, et. al.			
Art Unit				
Examiner Name	Not yet known			
Attorney Docket Number	040092-020010US			

	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2				
	BU	KILGUS, Dr. C.C., Spacecraft and Ground Station Applications of the Resonant Quadrifilar Helix, IEEE International Conference, 1974, pp. 75-77.					
	BV	KILGUS, Dr. C.C., Resonant Quadrifilar Helix Design, The Microwave Journal, Dec. 1970, pp. 49-54.					
	BW	HALL, P.S. et al., Review of Radio Frequency Beamforming Techniques for Scanned and Multiple Beam Antennas, IEEE Proceedings Part H., Oct. 1, 1990, pp. 293-303, Vol. 137, No. 5.					

Examiner	Date			
Signature	Considered	}		

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PTO/SB/21 (05-03)

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TRANSMITTAL FORM (Io be used for all correspondence after initial filing) (Io be used for all correspondence after initial filing) At Unit Examiner Name At Unit	الإهم	of 1995, no per	sons are re			on unless it displays a valid OMB control number.
FORM (to be used for all correspondence after initial filing) First Named Inventor At Unit Examiner Name Not yet known Attorney Docket Number O40092-020010US ENCLOSURES (Check all that apply) Fee Transmittal Form Fee Attached Licensing-related Papers Anendment/Reply After Final Petition to Convert to a Provisional Application Aftidavits/declaration(s) Extension of Time Request Extension of Time Request Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missin	TDANCAUTTAL	-	Applic	ation Number	10/625,8	10
Art Unit Examiner Name Not yet known Total Number of Pages in This Submission Attorney Docket Number ENCLOSURES (Check all that apply) Fee Transmittal Form Fee Attached Cucensing-related Papers Amendment/Reply After Final Petition After Final Petition to Convert to a Provisional Application Change of Correspondence Address Attending Communication to Group (Appeal Notice, Brief, Reply Brief) Extension of Time Request Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts Incomplete Application Response to Missing Parts Incomplete Application Response to Missing Parts Individual Chad S. Hillyard Certificate Of TRANSMISSION/MAILING Thereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postas first class mail in an envelope addressed to Commissioner for Paterts, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Nicole M. Burke		-	Filing	Date	July 22, 2	2003
Examiner Name Not yet known Total Number of Pages in This Submission Attorney Docket Number 040092-020010US Fee Transmittal Form	FORM		First N	lamed Inventor	Lier, Erik	
Total Number of Pages in This Submission	(to be used for all correspondence after initial filing)			it		
Fee Transmittal Form			Examiner Name		Not yet known	
Fee Transmittal Form	Total Number of Pages in This Submission	Attorn	ey Docket Number	040092-0	220010US	
Fee Attached		ENC	LOSURE	S (Check all that app	ly)	
Amendment/Reply Petition Petition Appeal Communication to Group (Appeal Notice, Enter Reply Brief) Petition to Convert to a Provisional Application Proprietary Information Proprietary Info	Fee Transmittal Form	☐ Drawin	g(s)	-	After A	Allowance Communication to Group
Affer Final	Fee Attached	Licensi	ng-relate	d Papers		
Affidavits/declaration(s) Affidavits/declaration(s) Power of Attorney, Revocation Change of Correspondence Address Terminal Disclaimer Terminal Disclaimer Change of Correspondence Address The Commissioner is authorized to charge any additional fees to Depart 20-1430. Signature Of Application Response to Missing Parts under 37 CFR 1.52 or 1.53 Signature Of Application Townsend and Townsend and Crew LLP Chad S. Hillyard Reg. No. 40,647 Signature Of Application Certificate Of Transmission/Mailling Thereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient posta as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Nicole M. Burke	Amendment/Reply	Petition	1			
Affidavits/declaration(s)	After Final	Provisi	onal App	lication	☐ Proprie	etary Information
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Express Abandonment Request CD, Number of CD(s) Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm or Individual Chad S. Hillyard Reg. No. 40,647 Signature Date August 26, 2003 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient posta as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Nicole M. Burke				nal Disclaimer		
Certified Copy of Priority Document(s) Remarks The Commissioner is authorized to charge any additional fees to Department(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm or Individual Chad S. Hilyard Reg. No. 40,647 Signature Date August 26, 2003 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient posta as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Nicole M. Burke	Express Abandonment Request					
Remarks Account 20-1430. Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm or Individual Chad S. Hilyard Reg. No. 40,647 Signature Date August 26, 2003 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient posta as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Nicole M. Burke						
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Townsend and Townsend and Crew LLP or Individual Chad S. Hilyard Reg. No. 40,647 Signature Date August 26, 2003 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient posta as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Nicole M. Burke				J		
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